

## Special Issue

### ACREMONIUM/GRASS INTERACTIONS

#### CONTENTS

<b>Introduction</b> .....	1
Importance and economic significance of the <i>Acremonium</i> endophytes to performance of animals and grass plant C.S. Hoveland (Athens, GA, USA) .....	3
Taxonomy, life cycle, reproduction and detection of <i>Acremonium</i> endophytes J.F. White, Jr. (Montgomery, AL, USA), G. Morgan-Jones (Auburn, AL, USA) and A.C. Morrow (Montgomery, AL, USA) .....	13
The ecology and evolution of endophytes K. Clay (Bloomington, IN, USA) .....	39
Chemistry of compounds associated with endophyte/grass interaction: ergovaline- and ergopeptine-related alkaloids G.B. Garner, G.E. Rottinghaus, C.N. Cornell and H. Testereci (Columbia, MO, USA) .....	65
Chemistry, occurrence and biological effects of saturated pyrrolizidine alkaloids associated with endophyte-grass interactions L.P. Bush, F.F. Fannin, M.R. Siegel, D.L. Dahlman and H.R. Burton (Lexington, KY, USA) .....	81
Lolitrems, peramine and paxilline: mycotoxins of the ryegrass/endophyte interaction D.D. Rowan (Palmerston North, New Zealand) .....	103
Abiotic stress tolerances (moisture, nutrients) and photosynthesis in endophyte-infected tall fescue C.W. Bacon (Athens, GA, USA) .....	123
Physiological interactions of endophytic fungi and their hosts. Biotic stress tolerance imparted to grasses by endophytes G.C.M. Latch (Palmerston North, New Zealand) .....	143
Perennial ryegrass ( <i>Lolium perenne</i> ) endophyte ( <i>Acremonium lolii</i> ) relationships: the Australian experience P.J. Cunningham, J.Z. Foot and K.F.M. Reed (Hamilton, Vic., Australia) .....	157
Molecular genetics of <i>Epichloë typhina</i> and <i>Acremonium coenophialum</i> C.L. Schardl and M.R. Siegel (Lexington, KY, USA) .....	169
Genetic manipulation of tall fescue J.F. Pedersen (Lincoln, NE, USA) and D.A. Sleper (Columbia, MO, USA) .....	187
Transmission and survival of <i>Acremonium</i> and the implications for grass breeding M.A.M. Do Valle Ribeiro (Carlow, Ireland) .....	195
Importance of <i>Acremonium</i> endophytes in turf-grass breeding and management C.R. Funk (New Brunswick, NJ, USA), R.H. White (Raleigh, NC, USA) and J.B. Breen (New Brunswick, NJ, USA) .....	215
Effects of endophyte-infected tall fescue on animal performance S.P. Schmidt and T.G. Osborn (Auburn, AL, USA) .....	233
Pathophysiology of fescue toxicosis F.N. Thompson (Athens, GA, USA) and J.A. Stuedemann (Watkinsville, GA, USA) .....	263
Causes and control of perennial ryegrass staggers in New Zealand R.A. Prestidge (Hamilton, New Zealand) .....	283
<i>Acremonium</i> endophytes: our current state of knowledge and future directions for research M.R. Siegel (Lexington, KY, USA) .....	301
<b>Author Index</b> .....	323

